

decom

TDM, YE. S.

"Utilization of a perfected standardized index in the analysis
of morbidity with temporary loss of work capacity."

Report submitted at the 13th All-Union Congress of Hygienists,
Epidemiologists and Infectionists. 1959

TIMM, Ye.S., dotsent

decided

Method for analyzing data of periodic mass health examinations
of workers and dynamic dispensary observations. Gig. i san.
24 no.6:35-39 Je '59. (MIRA 12:8)

1. Iz Uzbecksogo nauchno-issledovatel'skogo sanitarnogo insti-
tuta.

(INDUSTRIAL HYGIENE

periodic mass health exam. of workers, method
of analysis of data & dynamics of dispensary
observations (Rus))

In memory of Doctor Egenii Samuilovich Timm, d. 1962. Med. zhur.
Uzb. no.586 My'63 (MIRA 1724)

EAST GERMANY

DROST, H., LANGE, D., TIMM, U., and PUPKE, H., of the Institutes for Medicine and Biology, Institute for Biophysics, at the German Academy of Sciences, Research Group (Institute fuer Medizin und Biologie, Institut fuer Biophysik, der Deutschen Akademie der Wissenschaften, Forschungsgemeinschaft) [location not given].

"On the Possibility of the Excitation of an Exoelectron Emission by Means of Surface Bombardment with Positive Ions"

Berlin, Monatsberichte der Deutschen Akademie der Wissenschaften zu Berlin, Vol 8, No 10, Oct 1966, pp 703-705.

Abstract: In order to investigate the effects of positive ions on the course of afteremission, the authors studied the influence of bombardment with positive ions of metal surfaces on the emission of exoelectrons. In the experiments described briefly, samples of aluminum and iron were bombarded in vacuo with positive hydrogen and argon ions, using glow discharge radiation source with ion energies in the 0.5 to 10 kV range at dose rates of 10^8 to 10^9 particles per sq cm, in the up to 320°C temperature range. 10 references, including 7 German, 1 Czechoslovak, and 2 Western. (Manuscript received 20 Aug 1966).

1/1

- 10 -

IVANOV, Yu.V.; SUY, Kh.N.; TIMMA, E.P.

Turbulent isothermal jet in a general stream. Inzh.-fiz.zhur. no.5:
3-10 My '58.
(MIRA 12:1)

1. Institut energetiki AN ESSR, g. Tallinn.
(Fluid dynamics)

26.2.73
10.12.90

41474
S/023/62/011/003/002/002
D237/D308

AUTHORS: Timma, E. and Ivanov, Yu., Doctor of Technical Sciences

TITLE: Jets of round and rectangular cross-section in a co-stream

PERIODICAL: Akademiya nauk Estonskoy SSR. Izvestiya, v. 11, no. 3, 1962, 178-190

TEXT: This is a continuation of the work done earlier at the Institute of Power Engineering of the Estonian SSR. Initial and transition sectors of round and rectangular turbulent jets were investigated, and component velocities and temperatures at various parametric velocity and temperature values were obtained across the jets, at varying distances from the nozzle. The experimental installation is described in detail. The ratio of absolute temperatures of the stream and the jet $\theta = T_j/T_s$ and that of stream velocity and maximum jet velocity $\mu = u_s/u_j$ were: $\theta \approx 1$; $\mu = 0; 0.2; 0.333$ and $\theta \approx 1.5$; $\mu = 0; 0.3$ for plane jets, $\mu = 0; 0.1; 0.15; 0.16$;

Card 1/2

S/023/62/011/003/002/002
D237/D308

Jets of round ...

0.24; 0.49 for round isothermal; $\theta = 2$; $\mu = 0$; 0.14; 0.25 for round non-isothermal jets. The formula of A.S. Ginevskiy (Izv. AN O'TN, Mekhanika i mashinostroyeniye, no. 2, 1959) gave the best agreement with the experimental data for the profiles of the dimensionless velocity excess in the transition and main sectors of the round and rectangular jets in the initial sector of the isothermal round jet, and for the dimensionless temperature excess profile in the initial sector of the round jet. In other cases H. Schlichting's formulas were found preferable. Significant distortions of velocity and temperature fields are found to occur only near the nozzle. Formulas are proposed for the velocities of a round isothermal and non-isothermal jet and the length of the initial section of the latter, which describe satisfactorily the experimental data in the range investigated. A formula is derived for the velocities of plane jets. There are 7 figures.

ASSOCIATION: Institut energetiki Akademii nauk Estonskoy SSR
(Institute of Power Engineering of the Academy of Sciences of the Estonian SSR)

SUBMITTED: December 14, 1961

Card 2/2

TIMMA, E.

Development of turbulent round and laminar jets in a counter-current. Izv. AN Est. SSR. Ser. fiz. mat. i tekhn. nauk 11 no.4:253-262 '62. (MIRA 16:1)

1. Academy of Sciences of the Estonian S.S.R., Institute of Energetics.

(Hydrodynamics)

TIMMA, E.

AID Nr. 983-8 5 June

ANALYTICAL INVESTIGATION OF TURBULENT JET DEVELOPING IN AN
ACCOMPANYING FLOW (USSR)

Timma, E. IN: Akademiya nauk Estonskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh i tekhnicheskikh nauk, no. 1, 1963, 57-74.

S/023/63/000/001/004/004

Analytical formulas have been derived for determination of the characteristics of the initial, main, and transitional sections of a turbulent plane-parallel jet developing in an accompanying flow. It was assumed, on the basis of experimental data, that the velocity, temperature, and concentration profiles in the cross section of the boundary layer are similar for axially symmetrical and plane-parallel jets. Data calculated by these formulas are in good agreement with experimental results of several authors. It is shown that the length of the initial section of a turbulent plane jet and the value of the turbulence constant depend to a considerable extent on the form of the universal function of velocity field and the form of the given velocity profile. The thickness of the mixing zone in the initial section is small.

[JA]

Card 1/1

BARKOV, N.K.; TIMME, V.A., doktor tekhn. nauk, retsenzent

[Automatic control of heavy-duty hydraulic turbines]
Avtomatizatsiya moshchnykh gidroturbin. Moskva, Mashinostroenie, 1964. 254 p.
(MIRA 17:12)

TIMMER, Jozsef

The 13th Congress of Soviet Trade Unions. Munka 13 no.12:
3-4 D'63.

1. "Nepszava" foszerkesztoje.

"APPROVED FOR RELEASE: 07/16/2001

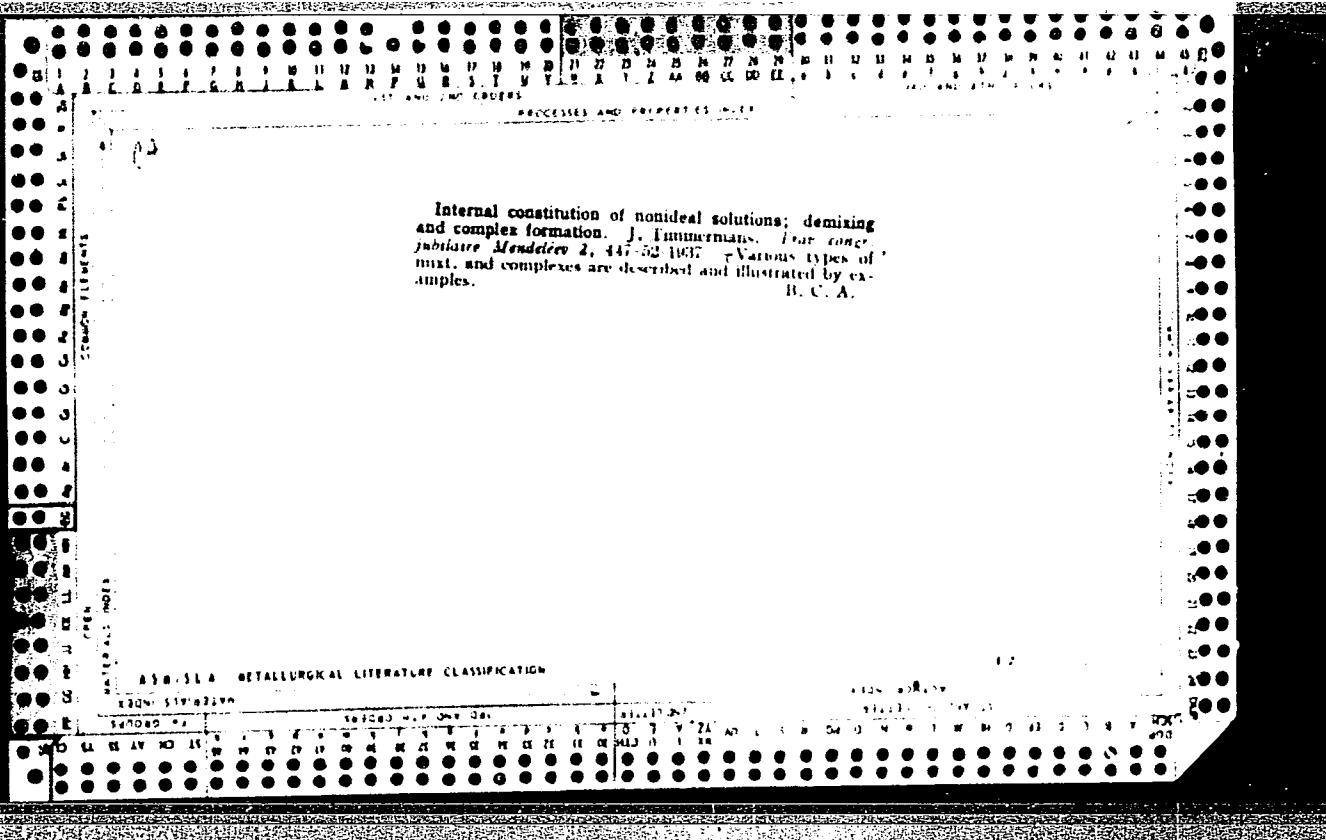
CIA-RDP86-00513R001755710016-8

TIMMER, Jozsef

For the complete victory of socialism. Hung TU no.2:1-2 F '63.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755710016-8"

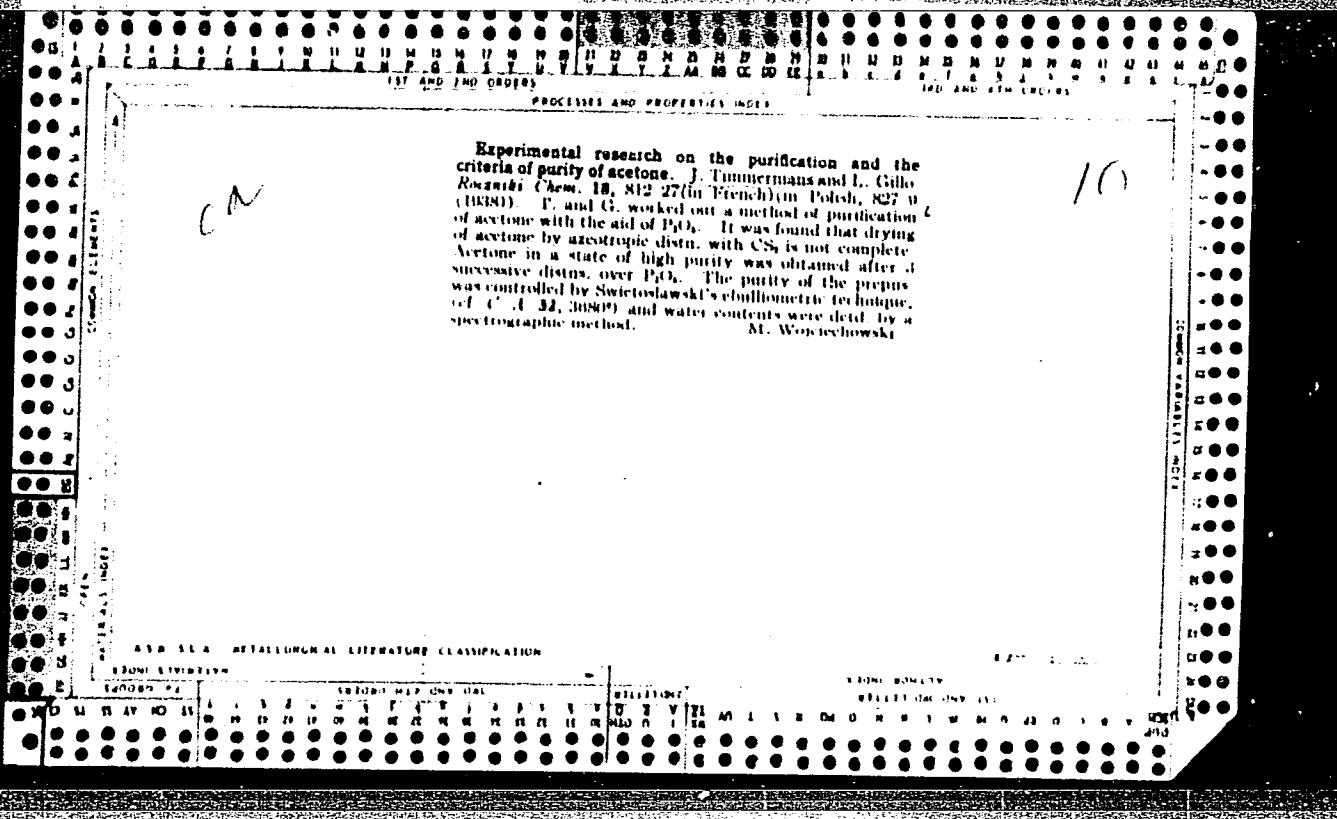


4-3

BC

Purification and criteria of purity of acetone.
J. Thienmatais and L. Giulio (Recs. Chem., 1938, 15,
812-820) - CO₂, is purified by three-repeated
fractional distillation over P₂O₅; the product, b.p.
56-20°/760 mm., d²⁰ 0.81243, contains H₂O 0.0002,
MeCHO <0.0001, AcOH 0.0008, and CO₂ 0.0006%.

R. T.



KRAMAROV, A.D.; TOLSTOGUZOV, N.V.; ZARVIN, Ye.Ya.; TIMMERMAN, V.P.; LEVIN, A.M.; GUROV, A.K.

Making manganese alloys from Usa deposit manganese ores. Izv. vys. ucheb. zav.; chern. met. no.12:46-54 '60. (MIRA 14:1)

1. Sibirskiy metallurgicheskiy institut.
(Usa Valley—Manganese ores)
(Manganese alloys—Metallurgy)

ZARVIN, Ye.Ya.; KRAMAROV, A.D.; TOLSTOGUZOV, N.V.; GUROV, A.K.; LEVIN, A.M.;
TIMMERMAN, V.P.

Use of silicomanganese made of Usa ores for the reduction of
steel. Izv. vys. ucheb. zav.; chern. mets no.12:55-62 '60.
(MIRA 14:1)

1. Sibirskiy metallurgicheskiy institut.
(Usa Valley—Ore deposits)
(Silicon-manganese alloys)

GOLOSHCHAPOV, V.G.; TIMMERMAN, Ye.A.

Contact network maintenance expenditures can be significantly decreased. Elek. i tepl. tiaga no.5:20-21 My '63.
(MIRA 16:8)

1. Zamestitel' nachal'nika Permskogo uchastka energosnabzheniya Sverdlovskoy dorogi (for Goloshchapov). 2. Rukovoditel' laboratorii kontaktnoy seti Ural'skogo otdeleniya Vsesoyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya (for Timmerman).

(Electric railroads—Wires and wiring)

DANIELLO, L., prof.; TIMOC, I., dr.; SERBAN, Al., dr.; MIHAIU, V., dr.;
MOLL, E., dr.

Contributions to the study of post-bronchographical oily pneumopathy,
with reference to 14 cases. Med. intern. 15 no.2:143-152 F '63.

1. Lucrare efectuata in Clinica de ftiziologie, I.M.F. Cluj.
(LUNG DISEASES) (IODIZED OILS) (THORACIC RADIOGRAPHY)

TIMOC, I.; PETRESCU, G.; MOLL, E.

On the utility of hyaluronidase in phthisiopneumonology.
Rumanian med. rev. 7 no.4:61-67 0-D'63

*

TIMOC, I.; MIHAIU, V.; COMAN, N.

Lymphadenobronchial tuberculosis; clinical, roentgenologic, bronchoscopic,
bacteriologic & biptic contributions. Romanian M. Rev. 1 no.4:32-33
Oct-Dec 57.

(TUBERCULOSIS, PULMONARY, compl.
lymph node tuberc., manifest.)
(TUBERCULOSIS, LYMPH NODE, compl.
pulm. tuberc., manifest.)

| | |
|------------|--|
| Country | Rumania |
| Category | Microbiology |
| Abs. Jour | Microbes Pathogenic For Man and Animals. Mycobacteria. |
| | Ref Zhur-Miol., No 24, 1958, № 103897 |
| Author | Timoc, I., Chanovits, G., Moll, E. |
| Institut. | --- |
| Title | Diagnostic Value of BCG Reaction Compared With Tuberculin Reaction |
| Orig. Pub. | Fitziologia, 1958, 7, No 3, 233-235 |
| Abstract | No abstract. |

Card: 1/1

F-64

DANIELLO, L.; TIMOC, I.; MIADIN, Tr.; MAUKSCH, M.

Considerations on certain manifestations of tuberculous nature,
occurring in the pulmonary lymph nodes during antibiotic therapy.
Rumanian M. Rev. 1 no.1:48-51 Jan-May 57.

(TUBERCULOSIS, ther.

isoniazid, PAS & streptomycin, post-ther. manifest. in
pulm. lymph nodes)

(LYMPH NODES, eff. of drugs on

isoniazid, PAS & streptomycin ther. of tuberc., post-ther.
manifest. in pulm. lymph nodes)

TIMOCHKINA, A. S.

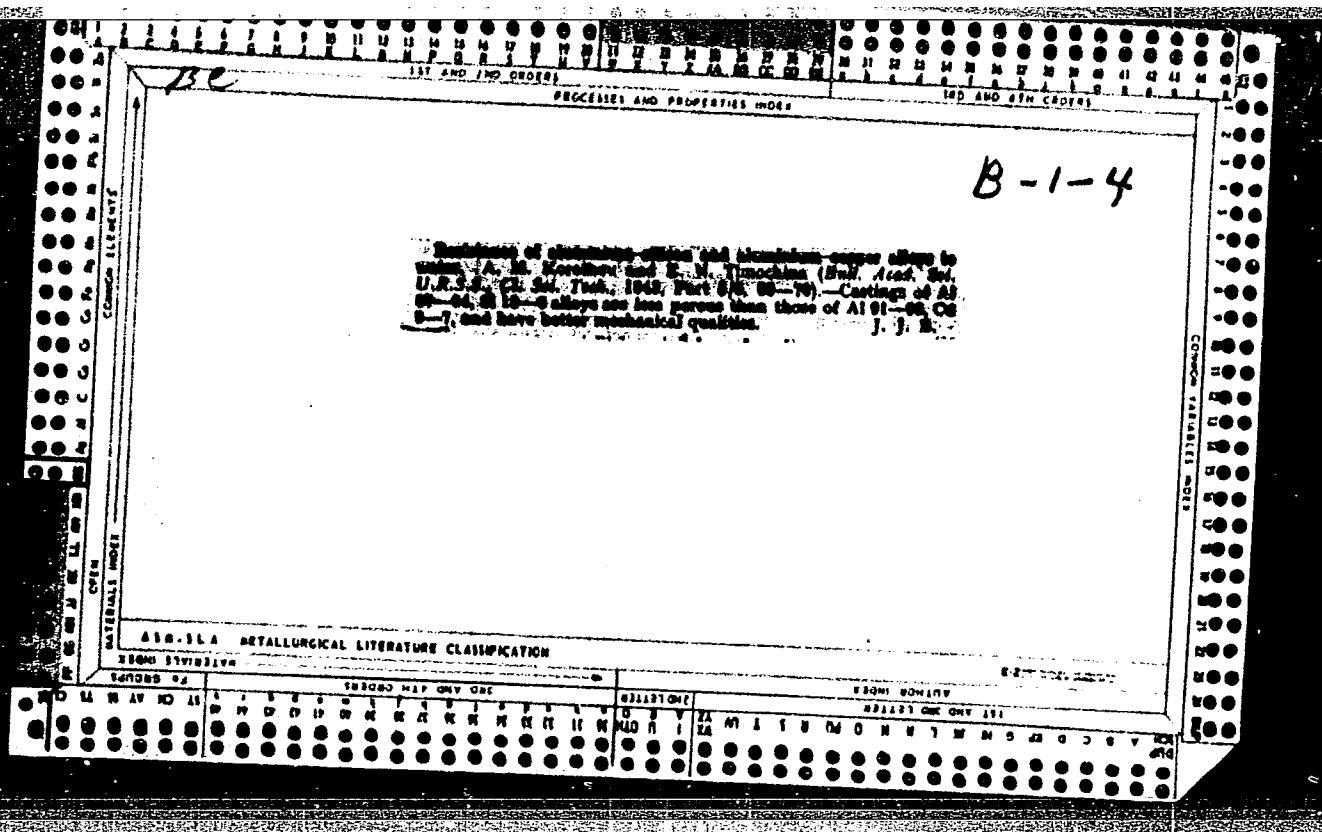
TIMOCHKINA, A. S., CHUBAROV, Sp. I., and MATALIN, L. A.

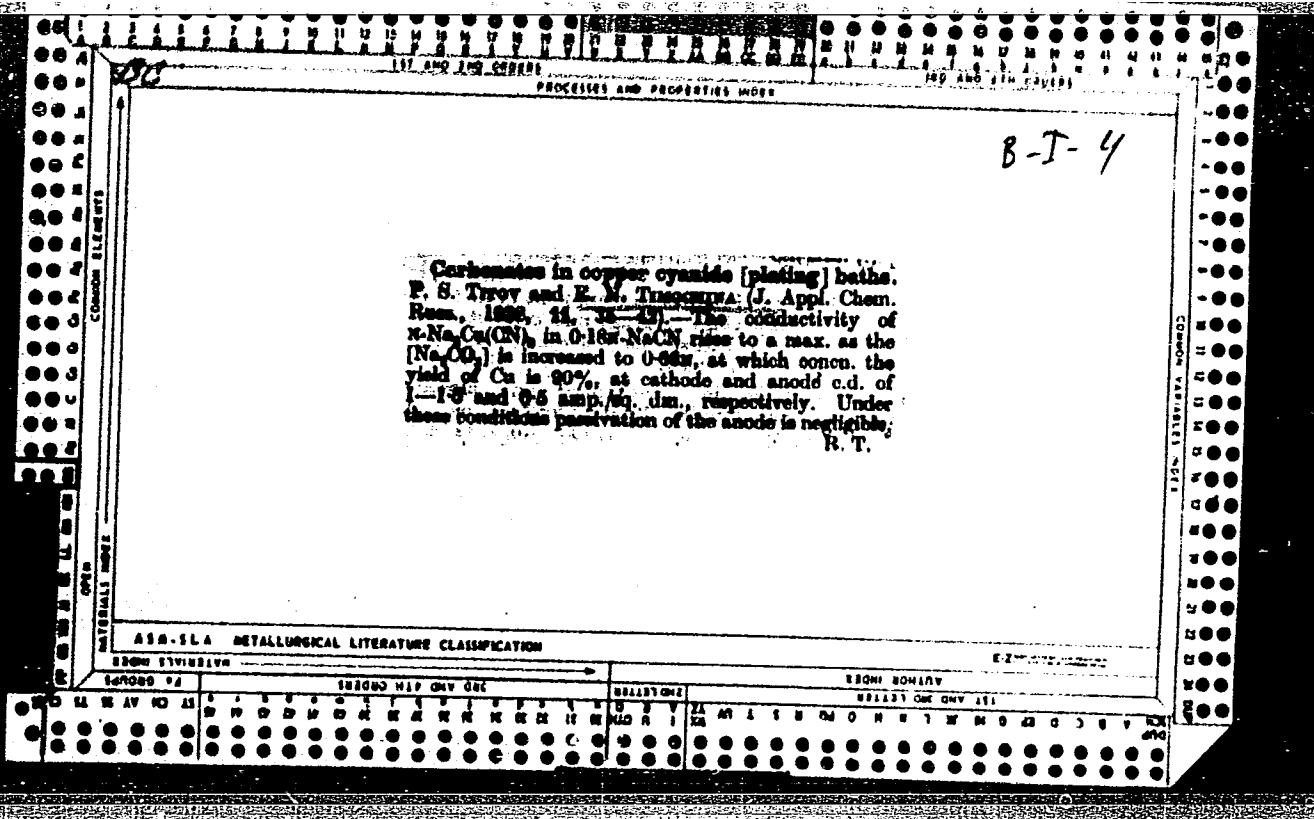
"Data handling from Multichannel Analyzers"

report submitted for the IAEA conf. on Nuclear Electronics, Belgrade, Yugoslavia
15-20 May 1961

TIMOC, I.; HICA, L.; PETRESCU, G.; MAUKSCH-KOVATS, M.; CULCITCHI, N.

Pulmonary excision in a child aged six months. Rumanian M Rev. no.3:
36-37 Jl-S '60.
(PNEUMONECTOMY in inf. & childh.)





USSR / Virology. Human and Animal Viruses. General
Problems.

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5291.

Author : Timofayev, P. T.

Inst : Military Medical Academy.

Title : Experiment in the Utilization of the Bacterial
Adsorption of Viruses as a Method of Virological
Diagnosis of Certain Ultraviral Infectious Dis-
eases.

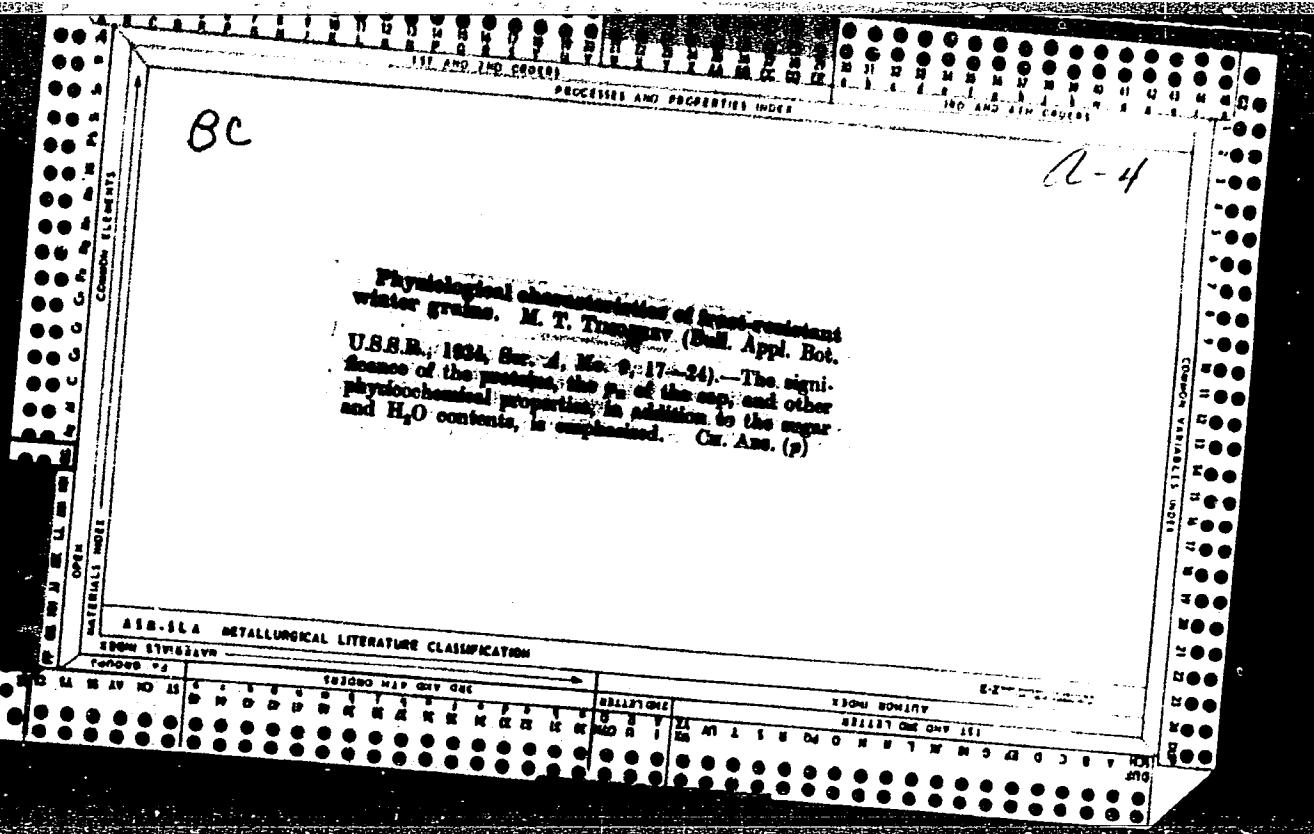
Orig Pub: Tr. Voyen.-med. akad., 1957, 76, 120-123.

Abstract: No abstract.

Card 1/1

TIMOFEYEV, D.A. [Timofeyev, D.A.]

Geomorphology of the lacustrine-alluvial accumulation plains.
Analele geol geogr 17 no.4:81-92 0-D '63.



Physiological characteristics of frost-resistant winter grains. M. T. Timofeyev. *Bull. Applied Botany Genetics, Plant Breeding* (U. S. S. R.) Ser. A, No. 6, 17-24 (1934). - T. stresses the necessity of studying not only the character of the sugars and water content in relation to freezing, but also the proteins, the pH of the sap, and similar physicochemical properties. J. S. Joffe

| 1ST AND 2ND GROUPS | | 3RD AND 4TH GROUPS | | 5TH AND 6TH GROUPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PROCESSES AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Physiological characteristics of frost-resistant winter grains. M. T. Timofeev. <i>Bull. Applied Botany, Genetics, Plant Breeding</i> (U. S. S. R.) Ser. A, No. 9, 17-24 (1934). - T. stresses the necessity of studying not only the character of the sugars and water content in relation to freezing, but also the proteins, the <i>pH</i> of the sap, and similar physicochem. properties. J. S. Joffe</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p style="text-align: center;">ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">REF ID:</td> <td style="width: 40%;">TITLE OR SUBJECT</td> <td style="width: 50%;">CLASSIFICATION</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>4</td> <td>5</td> <td>6</td> </tr> <tr> <td>7</td> <td>8</td> <td>9</td> </tr> <tr> <td>10</td> <td>11</td> <td>12</td> </tr> <tr> <td>13</td> <td>14</td> <td>15</td> </tr> <tr> <td>16</td> <td>17</td> <td>18</td> </tr> <tr> <td>19</td> <td>20</td> <td>21</td> </tr> <tr> <td>22</td> <td>23</td> <td>24</td> </tr> <tr> <td>25</td> <td>26</td> <td>27</td> </tr> <tr> <td>28</td> <td>29</td> <td>30</td> </tr> <tr> <td>31</td> <td>32</td> <td>33</td> </tr> <tr> <td>34</td> <td>35</td> <td>36</td> </tr> <tr> <td>37</td> <td>38</td> <td>39</td> </tr> <tr> <td>40</td> <td>41</td> <td>42</td> </tr> <tr> <td>43</td> <td>44</td> <td>45</td> </tr> <tr> <td>46</td> <td>47</td> <td>48</td> </tr> <tr> <td>49</td> <td>50</td> <td>51</td> </tr> <tr> <td>52</td> <td>53</td> <td>54</td> </tr> <tr> <td>55</td> <td>56</td> <td>57</td> </tr> <tr> <td>58</td> <td>59</td> <td>60</td> </tr> <tr> <td>61</td> <td>62</td> <td>63</td> </tr> <tr> <td>64</td> <td>65</td> <td>66</td> </tr> <tr> <td>67</td> <td>68</td> <td>69</td> </tr> <tr> <td>70</td> <td>71</td> <td>72</td> </tr> <tr> <td>73</td> <td>74</td> <td>75</td> </tr> <tr> <td>76</td> <td>77</td> <td>78</td> </tr> <tr> <td>79</td> <td>80</td> <td>81</td> </tr> <tr> <td>82</td> <td>83</td> <td>84</td> </tr> <tr> <td>85</td> <td>86</td> <td>87</td> </tr> <tr> <td>88</td> <td>89</td> <td>90</td> </tr> <tr> <td>91</td> <td>92</td> <td>93</td> </tr> <tr> <td>94</td> <td>95</td> <td>96</td> </tr> <tr> <td>97</td> <td>98</td> <td>99</td> </tr> <tr> <td>99</td> <td>99</td> <td>99</td> </tr> </table> | | | | | | REF ID: | TITLE OR SUBJECT | CLASSIFICATION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 99 | 99 | 99 |
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| 28 | 29 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 32 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 35 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | 38 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 41 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | 44 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | 47 | 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 49 | 50 | 51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52 | 53 | 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | 56 | 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | 59 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61 | 62 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 64 | 65 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 | 68 | 69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | 71 | 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 73 | 74 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76 | 77 | 78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 79 | 80 | 81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 82 | 83 | 84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 86 | 87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88 | 89 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91 | 92 | 93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | 95 | 96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 97 | 98 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 99 | 99 | 99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TIMOFEEV, V.I.

Initial reaction to total-body irradiation and possibilities of
stopping it. Voen. med. zhur. no.2:49-52 '63. (MIRA 17:9)

TIMOFEI, Fl., ing.; MARUTA, Al., ing.

On the problem of air entrainment in the pipes of suction pumps. Hidrotehnica 8 no. 6: 218-223 Je '63.

TIMOFEYECHEV, M., polkovnik

Unity of command is the most important principle of the development
of Soviet Armed Forces. Komm.Vooruzh.Sil 2 no.12:44-50 Je '62.
(MIRA 15:8)

(Russia--Army--Officers)

L 100/5-01 LMI(1) RCH/RU
ACC NR: AP6009035 (N) SOURCE CODE: UR/0395/65/000/022/0037/0041
AUTHOR: Timofeychev, M. (Colonel, Candidate of Historical Sciences) 12
ORG: None 38
TITLE: Man, equipment, discipline
SOURCE: Kommunist vooruzhennykh sil, no. 22, 1965, 37-41
TOPIC TAGS: human engineering, environment test, military training, military action,
~~military personnel~~, field exercise, nuclear warfare training, political system
ABSTRACT: The appearance of nuclear missiles, of new, complicated military equipment, and the greater industrialization of war has increased the significance of the human being as the main factor in war. Military action under nuclear conditions will demand coordination, precision, organization, and strong discipline if panic and disorder are to be avoided. Discipline is based on the state of moral-political and psychological training of the individual. Success in battle today depends on the technical training of personnel. The crews assigned to missiles, tanks, and artillery pieces must be able to work smoothly together so as to fire their weapons accurately in the shortest possible time. Personnel must be properly trained to maintain their equipment in combat condition and to extend the service life of the equipment. Two methods of training are discussed. In one one podrazdeleniye participates in a complex training exercise with all of its organizational equipment while another
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ACC NR: AP6009035

4/

podrazdeleniye participates without equipment and serves as a control. A group of 2 or 3 officers supervise the training. The first podrazdeleniye conducts the exercise, closely watched by the one without its equipment. Upon completion a critique is held, with the second group noting any mistakes made by the podrazdeleniye undergoing the test. The second method involves two similar podrazdeleniye carrying out similar training missions to see which can complete the mission in the shortest period. This method also serves to increase crew efficiency. The officers should run through all exercises before their subordinates are required to do so, they must see to it that the daily training schedule is followed and must carefully study regulations. The Communists must set the example and initiate socialist competition among the units so as to improve the quality of training. All military personnel must have a high level of military-technical training so that they can successfully conduct operations in today's nuclear environment.

SUB CODE: 15, 05/SUBM DATE: None

Card 2/2 *lm*

TIMOFEYCHEV, M., polkovnik, kand. istor. nauk

Man, equipment, discipline. Komm. Vooruzh. Sil 46 no.22:
37-41 N '65. (MIRA 19:1)

TIMOFEYENKO, A. A.

"Apparatus for Testing the Interturn Insulation of
Electric Motors," A. A. Timofeyenko Engr

"Elek Stants" No 6, pp 29-30

States that a considerable amount of damage to 3-kv
electric motors installed for internal use at power
stations has been caused by interturn short cir-
cuiting of stator coils. Loss of insulation was
caused by mechanical damage, wear and tear, and
leakage of oil onto coils. Describes impulse-
bridge apparatus weighing 10-12 kg with dimensions
162m14

USSR/Electricity - Electric Motors (Contd) Jun 50

or 460 x 410 x 260 mm designed by Engr M. N. Volodin,
Chelyabinsk Power System. Details principal faults
found in 3-kv motors when using this apparatus for
experimental purposes.

FDD

162m14

ПРИЧЕРКАНІЯ

ЛЕБЕДЕВА, В.І., інженер.; ТИМОФЕЄНКО, А.А., інженер.

Testing interturn insulation of high-voltage electric motors.
Elek. sta. 27 no.10:54-55 0 '56. (MLRA 9:12)
(Electric insulators and insulation--Testing)

86-58-6-8/34

AUTHOR: Timofeyenko, I. V., Col, Hero of the Soviet Union

TITLE: Approach of Small Targets by Aircraft (Vykhod na malorazmernyye tseli)

PERIODICAL: Vestnik vozduzhnogo flota, 1958, Nr 6, pp 22-26 (USSR)

ABSTRACT: The article describes some methods of approaching and attacking small targets by aircraft under such conditions that an attack on the first approach is impossible. There are five diagrams.

AVAILABLE: Library of Congress

Card 1/1

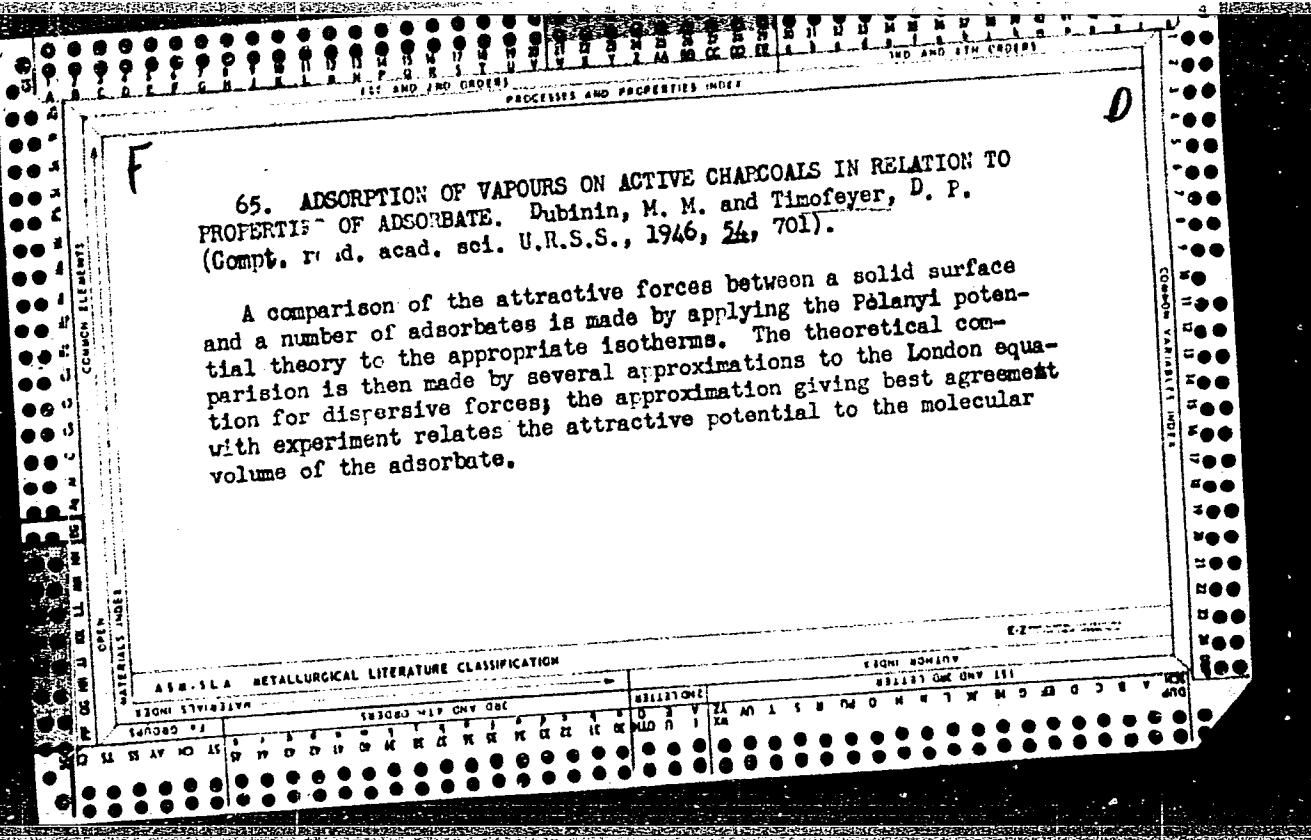
TIMOFEEV, I.V., polkovnik, geroy Sovetskogo Soyuza

Approach to airplanes to targets with small dimensions. Vest.
Vozd. Fl. 41.no. 6:22-26 Je '58. (MIRA 11:7)
(Aeronautics, Military)

REVIEWED BY: [Signature]

[Redacted] (MIA 1846)

1. Claiming that availability "Savdayevskiy" [Redacted].



"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755710016-8

TIMOFEYER, L.

27880. TIMOFEYER, L. I SIDORIN, A. Sovetskiye velosipedy. (opisanije novykh modeley). Tekhnika molodezhi, 1949, No. 8 S, 22 23

SO: Letopis' Zhurnal'nykh Statey, vol. 37 1949

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755710016-8"

MOSHCHIN, I., instruktor-aviamodelist (Rzhev, Kalininskoy obl.); BLINOV, B., inzh.-konstruktor (Moskva); PATRUSHEV, A.; GROMOV, V., instruktor aviamodel'noy laboratori (Penza); TIMOFEEV, A., obshchestvennyy instruktor (Leningrad); POPOV, M.

The new direction in airplane modeling. Kryl. rod. 15 no.12:26
D '64. (MIRA 18:3)

1. Rukovoditel' aviamodel'nogo kruzhka Doma pionerov, Sovetsk, Kirovskoy oblast (for Patrushev). 2. Predsedatel' aviamodel'nogo komiteta Federatsii aviatsionnogo sporta Ukrayiny, Kiyev (for Povov).

TIMOFEEV, A.

Public Works

First lessons on exhibits of inventions and rationalization. Zhil. -kom. khoz.
2 no. 3, 1952

9. Monthly List of Russian Accessions, Library of Congress, July 1952, Uncl.

TIMOFEEV, A.

Experienced engineer and active public worker. Zhil.-kom. khoz. 10
no, 7:20-21 '60. (MIRA 13:10)
(Popov, Vasili Alekseevich)

VEKSLER, I.; FEDOROV, P.; ALEYEV, Sh.; TIMOFEEV, A., tekhnolog;
BELOSTOTSKIY,A., tekhnoruk

They are helping to mechanize work. Prom. koop. 12 no.10:14-15
0 '58. (MIRA 11:10)

1. Artel' "Zarya," Leningrad (for Veksler).
2. Nachal'nik proizvodstvenno-tekhnicheskogo otdela oblpromsoveta g.Orel (for Fedorov).
3. Nachal'nik otdela Bashpromsoveta g.Ufa (for Aleev).
4. Artel' invalidov "Metallist," g. Novosibirsk (for Timofeyev).
5. Artel' "35 let Oktyabrya," g. Kiyev (for Belostotskiy).
(Inventions, Employees')

TIMOFEEV, A.

Workers of the groups of communist labor. Zhil.-kom.khoz.
10 no.4:14-16 '60. (MIRA 13:6)
(Moscow--Streetcars) (Moscow--Trolley buses)

KUZ'MIN, Ye., starshiy dispatcher-tehnolog; VASIL'YEV, Ye., brigadir
gruzchikov; TIMOFEEV, A., starshiy kranovshchik; KUSLAP, A.,
starshiy kranovshchik; KHVOSTOVA, D.M., red.; KIRSANOVA, N.A.,
tehn.red.

[New equipment in the port of Riga] Novaia tekhnika v Rizhskom
portu. Izd-vo VTsSPS Profizdat, 1958. 54 p. (MIRA 12:3)
(Riga--Harbor) (Loading and unloading)

TIMOFEYEV, A., kand. sel'skokhozyaystvennykh nauk; ANDREYEVA, L., agronom

Using mixtures of herbicides and mineral fertilizers in controlling
weeds on millet fields. Nauka i perevod. op v sel'khoz. 9 no.6:42 Je
'59. (MIRA 12:9)

(Millet) (Weed control)

1. A. I. F. E. / 7.
TIMOFEEV, A., inzh.

Merits and shortcomings of the TSNS-70 separator. Mias. ind. SSSR
28 no.6:57-58 '57.
(MIRA 11:1)

1. Armavirskiy myasokombinat.
(Oils and fats) (Separators (Machines))

TIMOFEYEV, A.

Pavements made of reinforced-concrete plates stressed in
laying. Avt. dor. 28 no.5:19-20 My '65. (MIRA 18:11)

27-9-23/30

AUTHOR: Timofeyev, A., Master Craftsman in charge of Industrial Training

TITLE: Irreplaceable Assistants (Nezamenimyye pomoshchники)

PERIODICAL: Professional'no - Tekhnicheskoye Obrazovaniye, 1957, # 9(148),
p 28 (USSR)

ABSTRACT: The author emphasizes the responsible role played by the master
craftsman in professional training and education of the apprentices
and also in organizing the Komsomol, the Professional Union
and the Physical Training Unit, which make up the Collective.

ASSOCIATION: Technical School # 4, Kursk (Tekhnicheskoye uchilishche # 4,
Kursk)

AVAILABLE: Library of Congress

Card 1/1

TIMOFEEV, A. (Chelyabinsk)

What hinders the construction of urban gas supply systems in the
city of Chelyabinsk. Zhil.-kom. khoz. 9 no.9:13-14 '59.

(MIRA 13:2)
(Chelyabinsk--Gas distribution)

TIMOFEYEV, A.; TSIKAREV, M.

Using street lighting of a new type in the Urals. Zhil.-kom. khoz.
8 no.12:24 '58. (MIRA 13:1)
(Ural Mountain region--Street lighting)

USSR/Physics - Discharge gas density
Card 1/2 *Timofeyev, A. A.*
Pub. 153 - 8/19

FD-3133

Author : Klyarfel'd, B. N.; Timofeyev, A. A.; Neretina, N. A.; Guseva, L. G.
Title : Characteristics of probes at positive potentials and measurement of density
of gas in discharges
Periodical : Zhur. tekhn. fiz., 25, No 9 (September), 1955, 1581-1596
Abstract : The authors review the discharge phenomena near a probe that has a positive potential relative to the plasma. Utilization of certain properties of the volt-ampere characteristics of such a probe permit them to measure the variation of the gas density under the action of discharge fed by a direct or alternating current. They find that with increasing positive potential on the probe relative to gas-discharge plasma the volt-ampere characteristics of the probe indicate the existence of two regimes: a) regime of probe corresponding to non-independent form of discharge, and b) regime of anode corresponding to independent discharge able to exist even when the main discharge is switched off; the transition between the two regimes of probe operation is effected in most cases by a jump suggestive of the phenomenon of rupture. Difference in potentials between plasma and positively charged probe at which rupture of layer near probe occurs increases with decrease in the density of the gas and with increase in density of discharge current; these properties can be used to measure the gas density in the limits of intense discharge, and suggests a convenient method for measuring

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FD-3133

densities in various gases and vapors. The region of measurements of gas densities can be regulated by changes in the radius of the cylindrical probe used, since the rupture strength of the layer increases with decrease in radius; this is the result of decrease in the thickness of that part of the layer near the probe in which the electrons produce intense ionization of the gas. Comparatively small increase in probe current in the positive branch of the characteristics of a plane probe is mainly determined by increase in plasma of ions generated in the layer; recharging of positive ions amplifies this effect by several times. Transition of the probe to the anode regime is accompanied by formation around the probe of a new intense plasma of small size separated from the remaining plasma by a potential drop. Ordinarily this regime is unstable and the probe passes continuously from the anode regime to the probe regime and reversely, thus forming deep oscillations in the voltage strength with frequency of 10^4 to 10^6 cycles. The proposed mechanism governing these oscillations consists in the periodic accumulation of positive ions around the probe with formation of new small plasma and in the disintegration of this plasma after the voltage at the probe drops to a small value. For the study of dynamic variation of gas density in discharges the authors developed an impulse probe method permitting measurement of instantaneous values of gas density in various phases of discharge burning on alternating or periodic current. Nineteen references: e.g. B. Klyarfel'd, L. Pervova, *ibid.*, 15, 640 1945; V. Granovskiy, T. Suyetin, *ibid.*, 16, 1023, 1946 and 17, 291, 1947: etc.

Submitted : March 22, 1955

TIMOFEEV, A. A.

"Dynamic Changes of Vapor Density in a High-voltage Mercury Rectifier."

p. 192 in book Research in the Field of Electric Discharge in Gases.
Moscow, Gosenergoizdat, 1958, 239pp. (trudy Vsesoyuznyy elekrotekh. in-ta)

SOV/58-59-8-18400

Translated from: Referativnyy Zhurnal Fizika, 1959, Nr 6, p 198 (USSR)

AUTHOR: Timofeyev, A.A.

TITLE: Dynamic Variations in Vapor Density in a High-Voltage Mercury Valve

PERIODICAL: Tr. Vses. elektrotekhn. in-ta, 1958, Nr 63, pp 192-217

ABSTRACT: By means of the impulse-sounding method, described in detail in an earlier issue (RZhF, 1956, Nr 5, 13947), the variation in the density of the mercury vapor in a high-voltage mercury valve was studied during various phases of direct and reverse half-periods of the load. Measurements of space potentials, conducted simultaneously with measurements of the vapor density, showed that the variations in voltage drop on the individual elements of the anode-grid terminal are a function of the variations in the vapor density. The bibliography has 20 titles.

From the author's résumé

Card 1/1

TIMOFEEV, A. A., Candidate Tech Sci (diss) -- "A method of investigating the dynamics of gas density in intensive discharge, and its use for measuring the density of mercury vapor in high-voltage tubes". Moscow, 1959. 15 pp (All-Union Order of Lenin Electrical Engineering Inst im V. I. Lenin), 150 copies (KL, No 25, 1959, 136)

24.2120

66696

AUTHOR: Timofeyev, A.A.

SOV/109-4-8-16/35

TITLE: Measurement of the Gas Density in the Dynamic Discharge Regime

PERIODICAL: Radiotekhnika i elektronika, 1959, Vol 4, Nr 8,
pp 1306 - 1310 (USSR)

ABSTRACT: The method of measurement of the gas density is based on the phenomena of the breakdown of a layer of the negative space charge around a small probe placed inside a discharge. By this means, it was possible to measure the instantaneous pressures in a high current discharge operated at the mains frequency. The processes at the probe and the mechanism of the breakdown of the space-charge layer around the probe are as follows (Ref 1). When the probe potential is increased, the electron current to the probe at first increases exponentially; when the probe becomes positive with respect to the surrounding

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SOV/109-4-8-16/35

Measurement of the Gas Density in the Dynamic Discharge Regime

plasma, and the negative space-charge layer is formed around it, the increase in the current is reduced. Further increase in the potential of the probe leads to a stepwise transition to a self-maintained discharge on the probe; this occurs at a certain critical potential and the discharge is characterised by a large increase of current for a small increase of voltage. The relationship of the breakdown voltage for the negative-charge layer on the gas density and the density of the discharge current is constant for a given type of probe. The dependence between the breakdown voltage and the gas density in the discharge can be employed to measure the current density by means of the probe. The gas density at a given point of the discharge can be determined by taking the voltage current characteristic for a probe by means of an oscilloscope. The measurements in a high-current discharge operated at the mains frequency were carried out by superimposing positive pulses having a duration of about 100 μ s onto the probe. By using this technique it was possible to determine a set of calibration curves. Some of these curves are shown in Figure 1, where

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Measurement of the Gas Density in the Dynamic Discharge Regime

Curve a illustrates the change of the current during the pulse, while Curve b shows the corresponding change in the vapour density (when the mercury discharge tube was immersed in water so that its walls contained drops of condensed mercury), while Curve C gives the change of the vapour density when the mercury condensate was removed from the walls. The curves correspond to a maximum current of 400 A and a cooling temperature of 30 °C; the discharge was produced by means of pulses having 4.5 ms duration. It is seen that the rise time of the current from zero to the maximum value is about 100 μs. From Figure 1, it is also seen that during the initial 100 μs, the vapour pressure remains substantially constant. The pressure-calibration curves can therefore be measured by the pulse method provided the pulses are sufficiently short. The calibration curves for mercury are shown in Figure 2, the probe being in the form of a cylinder having a diameter of 0.2 mm and a length of 6 mm. The horizontal axis shows the vapour pressure (in units of the saturation vapour pressure), while the vertical axis gives the breakdown

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Measurement of the Gas Density in the Dynamic Discharge Regime

voltage of a layer. The current received by the probe immediately before the breakdown is plotted as a parameter. The method was used to measure the mercury-vapour pressure in various mercury rectifiers. An example of the measurement is shown in Figure 3, where Curve 1 gives the density in the anode portion of the tube, Curves 2-4 correspond to the grid section and line 5 gives the density of the saturated mercury vapour corresponding to the temperature of the cooling water; the discharge was carried out at the mains frequency.

There are 3 figures and 4 references, 1 of which is English and 3 Soviet.

SUBMITTED: March 5, 1959

X

Card 4/4

LIMOTEEV, A.A.

- 242/20 66702
 AUTHORS: Granovskiy, V.L., Luk'yano, S.O./219-4-8-22/25
 Sirotnik, T.G., Spivak, G.V. and
 TITLE: Report on the Second All-Union Conference on Gas
 Electronics
- PERIODICAL: Radiotekhnika i elektronika, 1959, Vol. 4, Nr. 8,
 pp 1359 - 1358 (USSR)
- ABSTRACT: The conference was organized by the Ac.-Sc.-USSR, the
 Ministry of Higher Education and Moscow State University during
 the period of operation of a discharge (see p. 1306 of
 the Journal). A.V. Sedopasov - "The Nature of a Striated
 Positive Column"; V.I. Parai and Yu.M. Kagan - "The Theory of Probes for
 Arbitrary Pressures"; N.M. Kagan et al. - "The Positive Column of a Discharge
 in a Diffusion Regime"; M.F. Konyshev - "Influence of the Processes of the
 Annihilation of the Negative Ions on Their Concentration
 in the Column"; M.D. Gabovich and L.P. Pashchuk - "Anomalous Scattering,
 Excitation of Plasma Oscillations and Plasma Resonance";
 Yu.L. Klimontovich - "Energy Lost by Charged Particles for
 the Excitation of the Oscillations in Plasma (the Langmuir
 Period) and the Theory of Non-Liner Plasma Oscillations";
 Ye.G. Martynov and V.G. Nekrashevich - "Dependence of
 the Temperature in the Anode-Electrode Region of a Pulse
 Discharge on the Material of the Electrodes";
 N.A. Martinis and B.N. Likhovid - "Formation of Light
 Spots on the Anode of a Gas Discharge (see p. 1301 of
 the Journal); N.A. Matveyeva - "Distribution of Binary Mixtures of Inert
 Gases in a d.c. Discharge".
 V.G. Stepanov and V.P. Zakharchenko - "Some Phenomena
 in Marized Plasma".
 V.G. Stoyanov and V.J. Batal - "The Possibility of
 Obtaining Highly Concentrated Plasma".
 G.V. Sainitskaya and E.M. Rezhikhel' - "Some Character-
 istics of the Discharge in an Ion Pump and in a Magnetic
 Ionization Vacuum Gau".
 Ye.R. Sucharenko and O.K. Nazarenko - "Properties of
 a Discharge with Electron Oscillations in a Magnetic
 Field (see p. 1303 of the Journal); The Paper by I.M. Dibman and A. Voklenko considered
 the appropriate methods for determining the concentration
 of atoms at the radiation levels".
 I.I. Sobelman and L.A. Yarzhin read a paper on
 "A Non-Stationary Theory of the Stark Broadening of the
 Spectral Lines in Plasma".
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 and the Shift of Spectral Lines in a Gas-discharge Plasma".
 B.I. Lant (England) - "The Kinetics of Electron Collisions
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 A.A. Mak and N.D. Yudkev - "Production of High
 Temperatures By Means of Spark Discharges".

L 26391-66 EWA(h)/EWT(m)

ACC NR: AM5025517

Monograph

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B+1

Yegorov, I. M.; Zhernov, V. S.; Lazarev, A. F.; Perov, N. L.; Timofeyev, A. A., comps.

Apparatus for recording and investigating ionizing radiation; a handbook (Apparatura dlya registratsii i issledovaniya ioniziruyushchikh izlucheniy; spravochnik) Moscow, Atomizdat, 1965. 429 p. illus., biblio. 4500 copies printed.

TOPIC TAGS: radiation dosimetry, ionizing radiation, nuclear physics apparatus, scintillator photomultiplier, gas discharge counter, ionization chamber, radiation dosimeter, radiometer, spectrometer

PURPOSE AND COVERAGE: This handbook is intended for research physicists in the field of dosimetrics and engineers and scientists dealing with radioactive sources of radiation. It may also be useful to persons concerned with the development, operation, and maintenance of dosimetric, spectrometric, and radiometric equipment. The book deals with Soviet experimental nuclear physics instruments, equipment, photomultipliers, scintillators, Geiger-Mueller counters, ionization chambers, etc. Characteristics of instruments for individual dosimetric control, measurements of doses and dose power, determination of the contamination of working areas and water by radioactive substances, aerosol devices, single and multichannel pulse analyzers, and others are described.

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Card 3/3 CC

GORBACHEV, I.F.; PETUKHOV, A.V.; TIMOFEYEV, A.A.

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TIMEFEYEV A.A.

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[Instructions for class I, II, III and IV leveling] Instruktsii po
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[Triangulation on the 1,2,3 and 4 order] Instruktsiya po triangulyatsii 1,2,3 i 4 klassov. Moskva, Izd-vo geodesicheskoi lit-ry, 1956. 307 p. (MLRA 9:5)

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(Leveling--Handbooks, manuals, etc.)

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Analyzing the economic efficiency of the utilization of SD and
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Dissertation: "Block Construction of City Roads." Cand Tech Sci, Academy of
Communal Economy imeni K. D. Pamfilov, 31 May 54. Vechernaya Moskva, Moscow,
21 May 54.

SO: SUM 284, 26 Nov 1954

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TIMOFEEV, A.A.: "Investigation of the hermetic properties of iron castings as a function of the density and porosity of the cast iron". Moscow, 1955. Min Higher Education USSR. Moscow Order of Labor Red Banner Inst of Steel imeni I.V. Stalin. (Dissertations for the Degree of Candidate of Technical Sciences).

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TIMOFEEV, A.A.

Service of precast road surface slabs of various shapes on elastic
foundation. Avt.dor 18 no.6:15-17 O '55. (MLRA 9:2)
(Roads, Concrete)

TIMOFEYEV, A.A., kand.tekhn.nauk.

Effect of certain technological factors on the density and
microporosity of cast iron. Izv. vys. ucheb. zav.; chern.
metal no.1:75-82 Ja '58.

(MIRA 11:5)

1. Sibirskiy metallurgicheskiy institut.
(Iron founding)

AUTHOR: Timofeyev, A.A. SOV/128-59-12-9/21

TITLE: Phosphide Porosity in Cast Iron (Fosfidnaya porostost' v chugune)

PERIODICAL: Liteynoye proizvodstvo, 1958, Nr 12, pp 17 - 19 (USSR)

ABSTRACT: Existing data on the effect of phosphorus on the porosity and tightness of cast-iron casts is insufficient and contradictory, and the optimum phosphorus content has not yet been determined. Experiments were carried out under the supervision of L.I. Fantalov, Doctor of Technical Sciences, on cast iron with various carbon equivalent values. It was stated that the effect of phosphorus depended on the carbon equivalent, and that a higher phosphorus content caused increased phosphide and graphite porosity. These results make possible a more accurate choice of optimum phosphorus content of cast iron for the production of castings with increased tightness. There are 2 graphs, 1 table, 1 set of microphotos and 7 references, 4 of which are Soviet and 3 English.

Card 1/1

25(1)

SOV/148-59-2-16/24

AUTHORS: Timofeyev, A.A., Candidate of Technical Sciences, and Ignat'yev,
M.G., Engineer

TITLE: The Problem of Ethylsilicate Hydrolysis in Smelted-Form Casting
(K voprosu o gidrolize etilsilikata v lit'ye po vyplavlyayemym
modelyam)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya,
1959, Nr 2, pp 117-125 (USSR)

ABSTRACT: Kurchman, Rubtsov, Shklenik, Liferenko and Aksenov /Ref 1-5/
have different opinions on the necessary quantity of water in
ethylsilicate hydrolysis used for binder production in smelted-
form casting. The quality of the ceramic shell obtained by
hydrolysis with different water consumption was investigated
with the use of commercial ethylsilicate (SiO_2 - 31.3%; HCl-0.2%).
Five variants of hydrolysis were carried out and the quality of
the ceramic shell was determined by various factors such as:
mechanical properties, rate of hydrolysis and syneresis, and
crack formation after calcination. It was stated that optimum
strength of the shell was obtained by the combined effect of
hydrolysis, syneresis and the elimination of water bound by the
gel. The strength of the shell increased with a higher water

Card 1/2

SOV/148-59-2-16/24

. The Problem of Ethylsilicate Hydrolysis in Smelted-Form Casting

consumption. Bending strength and deflection are characteristic of the plastic properties of the shell which depend on the water consumption in the gel. Crack formation is inversely proportional to the shell strength. The tests proved that maximum strength and plasticity and minimum cracking of the shell were obtained by ethylsilicate hydrolysis, producing gel of dimetasilicic acid ($H_2Si_2O_5$ or $SiO_2 \cdot 0.5 H_2O$). The author presents graphs where the rate of hydrolysis and syneresis and mechanical properties are plotted versus different variants of hydrolyses. There are 9 graphs and 7 references, 6 of which are Soviet and 1 English

ASSOCIATION: Sibirskiy metallurgicheskiy institut (Siberian Metallurgical Institute), Kafedra liteynogo proizvodstva (Chair of Casting Industry)

SUBMITTED: August 7, 1958

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kand. tekhn. nauk; APON'XIN, V.A., inzh.; BEDAHEV, V.I., inzh.;
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others. Izv. vys. ucheb. zav.; chern. met. 2 no.4:157-161 Ap '59.
(MIRA 12:8)

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(Foundry machinery and supplies) (Alloys)
(Zhevtnov, P.P.)

TIMOFEEV, A.A., kand. tekhn. nauk; KOVALENKO, P.P., kand. tekhn. nauk;
PREOBRAZHENSKAYA, I.N., inzh.; NOSKOV, V.G., inzh.; BOLOTINA,
I.V., red; izd-va; KHENOKH, F.M., tekhn. red.

[Album of designs of reinforced concrete slabs for precast pavements of city roads, sidewalks and streetcar tracks] Al'bom konstruktsii zhelezobetonnykh plit dlja sbornykh pokrytii gorodskikh dorog, trotuarov i putei tramvaiia. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1962. 34 p.
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Some economic results of the activity of an enterprise. Geod.
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SINYAGINA, V.I.; KOMAR'KOVA, L.M., red.izd-va; ROMANOVA,
V.V., tekhn. red.

[Instructions for 1st, 2d, 3d, and 4th-class leveling] In-
struktsiia po nivelirovaniyu I, II, III, i IV klassov. 4 izd.
dop. i ispr. Moskva, Gosgeoltekhnizdat, 1963. 110 p.

(MIRA 16:6)

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(Leveling)

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Surfacing with precast concrete. Avt. dor. 27 no. 3:23-25 Mr '64.
(MIRA 17:5)

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dor. 24 no.7:22-24 Jl '61.
(Hoisting machinery) (Precast concrete construction)

TIMOFEEV, A.A., kand.tekhn.nauk

Using local materials instead of sand in road construction in
the Urals. Avt. dor. 24 no. 1:20-21 Ja '61. (MIRA 14:2)
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MAYDEL', V.G., kand.tekhn.nauk; TIMOFEYEV, A.A., kand.tekhn.nauk

Paving slabs for roads and sidewalks. Gor. khoz.Mosk. 36
no.3:26-29 Mr '62. (MIRA 15:6)
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TIMOFEEV, Adrian Adrianovich; GEZENTSVEY, L.B., red.; VARGANOVA, A.N.,
red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Precast and precast reinforced concrete pavements for city streets
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Demands for precast concrete structures. Avt. dok. o/ 32-32
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TIMOFEEV, A.A., kand. tekhn. nauk; CHUKANOV, V.D.; DVOSKIN, S.M.

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TIMOFEEV, A.A.; CHUKANOV, V.D.; DVOSKIN, S.M.

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Inventor and scientist Grigorii Iosifovich Atabekov. Izobr. i rats.
3 no.5:26-27 My '58. (MIRA 11:9)
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